

INTERFERENCE DETECTION, IDENTIFICATION,
EXTRACTION AND REPORTING

ABSTRACT OF THE DISCLOSURE

An adaptive notch filter (ANF) module selectively filters a received wideband
5 communication signal to eliminate narrowband interference that lies within the
frequency spectrum of the wideband communication signal. To determine the
presence of narrowband interference, the ANF module scans various known
narrowband channels that lie within the frequency spectrum of the wideband
communication signal and determines signal strengths for each of the narrowband
10 channels. The signal strengths from the narrowband channels are compared to a
threshold that is derived from the narrowband signal strengths. Narrowband channels
having signal strengths that are greater than the threshold are determined to have
interference.